

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Reissue Application of:

Detering et al

Serial No.: Not Yet Assigned

Filed:

Reissue of Patent No.: 5,935,293

Issue Date: August 10, 1999

For: FAST QUENCH REACTOR
METHOD

Examiner: Unknown

Group Art Unit: Unknown

Attorney Docket No.: EGG-PI-413A RE

NOTICE OF EXPRESS MAILING

Express Mail Mailing Label Number: ER20251025418US

Date of Deposit with USPS: July 31, 2003

Person making Deposit: Mandy Jandon

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In compliance with the duty to disclose information material to patentability pursuant to 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO/SB/08 be considered by the Examiner and made of record. Copies of the listed documents are enclosed pursuant to 37 C.F.R. § 1.98(a).

In accordance with 37 C.F.R. § 1.97(g) and (h), filing of this Information Disclosure Statement is not to be construed as a representation that a search has been made or an admission that the information cited herein is, or is considered to be, material to patentability as defined in

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

of

4

Complete if Known

Application Number

Filing Date

First Named Inventor

Detering et al

Group Art Unit

Unknown

Examiner Name

Unknown

Attorney Docket Number

ECG-PI 413A re

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		McFeaters, J., et al., Application of Nonequilibrium Gas-Dynamic Techniques to the Plasma Synthesis of Ceramic Powders, VCH Publications, 1990, Chapter 46, pp. 431-446.	
		Krasnov et al., Low Temperature Plasma in Metallurgy	
		Zvetkov, J.V., et al., Low Temperature Plasma Used in Recovery Processes, Section 6, Academy of Science of the USSR, Institute of Metallurgy Named After A.A. Baikov	
		Down, M.G., <i>Titanium Production by a Plasma Process</i> , Final Technical Report, Materials Laboratory, Air Force Wright Aeronautical Laboratories (#AD A 121892), May 1982, pp. 1-8.	
		<i>"The INEL Plasma Research Program,"</i> Idaho National Engineering Laboratory (BP422E-R0592-1M-T), May 1992.	

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

Attorney Docket No.: EGG-PI-413A RE

37 C.F.R. § 1.56(b). Further, no representation is made by Applicants herein that no other possible material information as defined in 37 C.F.R. § 1.56(b) exists.

U.S. Patent Documents

<u>U.S. Patent No.</u>	<u>Publication Date</u>	<u>Patentee</u>
3,051,639	08/1962	Anderson
3,123,464	03/1964	Casey et al.
3,211,548	10/1965	Scheller et al.
3,408,164	10/1968	Johnson
3,429,691	02/1969	McLaughlin
3,630,718	12/1971	Newenschwander
3,738,824	06/1973	Davis et al.
3,840,750	10/1974	Davis et al.
3,914,573	10/1975	Muehlberger
3,954,954	05/1976	Davis et al.
3,992,193	11/1976	Fey et al.
4,022,872	05/1977	Carson et al.
4,080,194	03/1978	Fey
4,107,445	08/1978	Wolf et al.
4,145,403	03/1979	Fey et al.
4,146,389	03/1979	Karlovitz
4,164,553	08/1979	Perugini et al.
4,335,080	06/1982	Davis et al.
4,347,060	08/1982	Blizzard et al.
4,356,029	10/1982	Down et al.
4,410,358	10/1983	Heshmatpour
4,561,883	12/1985	Mullner et al.
4,610,718	09/1986	Araya et al.

Attorney Docket No.: EGG-PI-413A RE

4,612,045	09/1986	Shintaku
4,731,111	03/1988	Kopatz et al.
4,762,756	08/1988	Bergmann et al.
4,772,315	09/1988	Johnson et al.
4,783,216	11/1988	Kemp et al.
4,801,435	01/1989	Tylko
4,851,262	07/1989	McFeaters
4,875,810	10/1989	Chiba et al.
4,891,066	01/1990	Shimotori et al.
4,909,914	03/1990	Chiba et al.
4,911,805	03/1990	Kenji et al.
5,017,754	05/1991	Drouet et al.
5,028,417	07/1991	Gulguhji et al.
5,062,936	11/1991	Beaty et al.
5,073,193	12/1991	Chaklader et al.
5,194,128	03/1993	Beaty et al.
5,215,749	06/1993	Nicoll et al.
5,257,500	11/1993	Kattalaicheri et al.
5,294,242	03/1994	Zurecki et al.
5,749,937	05/1998	Detering et al.
5,788,738	08/1998	Pirzada et al.
5,851,507	12/1998	Pirzada et al.
5,935,293	08/1999	Detering et al.
6,379,419	04/2002	Celik et al.

Foreign Patent Documents

<u>Document No.</u>	<u>Publication Date</u>	<u>Patentee</u>
JP 30-7408	10/15/1955	Ishizuka

Attorney Docket No.: EGG-PI-413A RE

DE/DD 1 142 159	01/10/1963	Harnisch et al.
JP 38-6854	05/23/1963	Waku
SU 322960	01/05/1975	Mil'ko et al.
FR 2 341 389	09/16/1977	Perugini et al.
SU 223055	06/15/1982	Chesnokov et al.
FR 2 603 209	03/04/1988	Serole
DD 269 157 A1	06/21/1989	Hoffmann et al.
GB 2 217 699 A	11/01/1989	Egerton et al.
DD 293 704	09/05/1991	Dummersdorf et al.
GB 2 279 009 A	12/21/1994	Briquet

Other Documents

McFeaters, J., et al., Application of Nonequilibrium Gas-Dynamic Techniques to the Plasma Synthesis of Ceramic Powders, VCH Publications, 1990, Chapter 46, pp. 431-446.

Krasnov et al., Low Temperature Plasma in Metallurgy

Zvetkov, J.V., et al., Low Temperature Plasma Used in Recovery Processes, Section 6, Academy of Science of the USSR, Institute of Metallurgy Named After A.A. Baikov

Down, M.G., *Titanium Production by a Plasma Process*, Final Technical Report, Materials Laboratory, Air Force Wright Aeronautical Laboratories (#AD A 121892), May 1982, pp. 1-8.

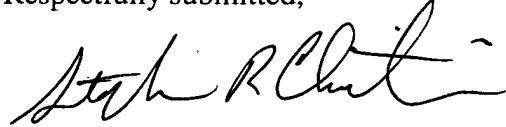
“*The INEL Plasma Research Program*,” Idaho National Engineering Laboratory (BP422E-R0592-1M-T), May 1992.

Applicants offer to supply any explanation or discussion of the documents that the Examiner feels is necessary or desirable and which is requested.

Attorney Docket No.: EGG-PI-413A RE

This Information Disclosure Statement is filed within three (3) months of the filing date of the above-identified application, and no certification pursuant to 37 C.F.R. § 1.97(c) or a fee pursuant to 37 C.F.R. § 1.17(p) is required.

Respectfully submitted,



Stephen R. Christian
Registration No. 32,687
Attorney for Applicants
P.O. Box 1625
Idaho Falls, Idaho 83415-3899.
(208) 526-9140
(208) 526-8339 FAX

Date: 31 JULY 2003

Enclosures: Form PTO/SB/08

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

1

of 4

Complete if Known

Application Number

Filing Date

First Named Inventor

Group Art Unit

Examiner Name

Detering et al

Unknown

Unknown

Attorney Docket Number

EGG-PI-413A RE

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		3,051,639	08/1962	Anderson	
		3,123,464	03/1964	Casey et al.	
		3,211,548	10/1965	Scheller et al.	
		3,408,164	10/1968	Johnson	
		3,429,691	02/1969	McLaughlin	
		3,630,718	12/1971	Newenschwander	
		3,738,824	06/1973	Davis et al.	
		3,840,750	10/1974	Davis et al.	
		3,914,573	10/1975	Muehlberger	
		3,954,954	05/1976	Davis et al.	
		3,992,193	11/1976	Fey et al.	
		4,022,872	05/1977	Carson et al.	
		4,080,194	03/1978	Fey	
		4,107,445	08/1978	Wolf et al.	
		4,145,403	03/1979	Fey et al.	
		4,146,389	03/1979	Karlovitz	
		4,164,553	08/1979	Perugini et al.	
		4,335,080	06/1982	Davis et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
		JP 30-7408	10/15/1955	Ishizuka		
		DE/DD 1 142 159	01/10/1963	Harnisch et al.		
		JP 38-6854	05/23/1963	Waku		
		SU 322960	01/05/1975	Mil'ko et al.		
		FR 2 341 389	09/16/1977	Perugini et al.		
		SU 223055	06/15/1982	Chesnokov et al.		
		FR 2 603 209	03/04/1988	Serole		
		DD 269 157 A1	06/21/1989	Hoffmann et al.		
		GB 2 217 699 A	11/01/1989	Egerton et al.		
		DD 293 704	09/05/1991	Dummersdorf et al.		
		GB 2 279 009 A	12/21/1994	Briquet		

Examiner
SignatureDate
Considered

¹ EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

² Applicant's unique citation designation number (optional). ³ See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ⁴ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁵ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁶ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 4

Complete if Known

Application Number	
Filing Date	
First Named Inventor	Detering et al
Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	EGG-PI-413A RF

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		4,347,060	08/1982	Blizzard et al.	
		4,356,029	10/1982	Down et al.	
		4,410,358	10/1983	Heshmatpour	
		4,561,883	12/1985	Mullner et al.	
		4,610,718	09/1986	Araya et al.	
		4,612,045	09/1986	Shintaku	
		4,731,111	03/1988	Kopatz et al.	
		4,762,756	08/1988	Bergmann et al.	
		4,772,315	09/1988	Johnson et al.	
		4,783,216	11/1988	Kemp et al.	
		4,801,435	01/1989	Tylko	
		4,851,262	07/1989	McFeaters	
		4,875,810	10/1989	Chiba et al.	
		4,891,066	01/1990	Shimotori et al.	
		4,909,914	03/1990	Chiba et al.	
		4,911,805	03/1990	Kenji et al.	
		5,017,754	05/1991	Drouet et al.	
		5,028,417	07/1991	Gulguhji et al.	

FOREIGN PATENT DOCUMENTS

Examiner Signature _____ **Date Considered** _____

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheets

3

1

1

Complete if Known

Application Number	
Filing Date	
First Named Inventor	Detering et al
Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	EGG-PI-413A RF

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.